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PATENT
1173-1035PUS2

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Brian R. Murphy et al. Group: 1648
Application No.: 09/083,793 Examiner: Stacy Brown Chen
Filed: May 22, 1998 Conf.: 4558
For: PRODUCTION OF ATTENUATED PARAINFLUENZA VIRUS VACCINES
FROM CLONED NUCLEOTIDE SEQUENCES

LETTER REQUESTING INITIALED PTO 1449 FORM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In reviewing the above-captioned application file upon allowance, the undersigned has noted that even though acknowledgement was received for the PTO Form 1449 filed on January 28, 1999, the Examiner did not initial the references under "Foreign Patent Documents". No reason was given as to why these references were not initialed.

A copy of the partly initialed form is attached. The Patent and Trademark Office therefore is requested to return the completely initialed form to the undersigned as soon as possible.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §1.16 or under 37 C.F.R. §1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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DRN/LTP/jd
Enclosure

FORM PTO-1449 (Modified		Attorney Docket No. 17634-000320		Serial No. 09/083,793	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS INFORMATION DISCLOSURE STATEMENT		Applicants Brian R. Murphy et al.			
Filing Date May 22, 1998		Group 1643			
REFERENCE DESIGNATION		U.S. PATENTS			
Examiner Initial	*	Document No.	Date	Name	Class Sub-Class
nm	AA	5,716,821	02/10/98	Wertz et al.	435 235.1
j	AB	5,789,229	08/04/98	Wertz et al.	435 235.1
FOREIGN PATENT DOCUMENTS					
Examiner Initial	*	Document No.	Date	Country	Trans-lation? Class
	AC	WO 97/06270	02/20/97	PCT	C12N
	AD	WO 97/11093	03/27/97	PCT	C07K
	AE	WO 97/20468	06/12/97	PCT	A01N
	AF	0 440 219 A1	08/07/91	Europe	C12N
	AG	0 702 085 A1	03/20/96	Europe	C12N
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)					
mm	AH	Belshe et al., "Cold Adaptation of Parainfluenza Virus Type 3: Induction of Three Phenotypic Markers," <u>J. Med. Virol.</u> 10:235-42 (1982).			
	AI	Blumberg et al., "Measles Virus L Protein Evidences Elements of Ancestral RNA Polymerase," <u>Virology</u> 164:487-497 (1988).			
	AJ	Collins et al., "Parainfluenza Viruses," <u>Fields Virology</u> 3rd ed., Lippincott-Raven Publishers, Philadelphia 1205-1241, (1996).			
	AK	Collins et al., "Production of infectious human respiratory syncytial virus from cloned cDNA confirms an essential role for the transcription elongation factor from the 5' proximal open reading frame of the M2 mRNA in gene expression and provides a capability for vaccine development," <u>Proc. Natl. Acad. Sci. USA</u> 92:11563-11567, 1995.			
EXAMINER <i>nm</i>		DATE CONSIDERED 12/16/99			

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

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OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)			
AM	AL	Conzelmann, "Genetic manipulation of non-segmented negative-strand RNA viruses," <u>J. Gen. Virol.</u> 77:381-89 (1996)	
	AM	Cook et al., "In Vivo antigenic Studies of Parainfluenza Viruses," <u>Amer. Jour. Hyg.</u> 77:150, 1963.	
	AN	Cook et al., "Antigenic Relationships Among the "Newer" Myxoviruses (Parainfluenza)," <u>Amer. Jour. Hyg.</u> 69:250, 1959.	
	AO	Dimock and Collins, "Rescue of Synthetic Analogs of Genomic RNA and Replicative-Intermediate RNA of Human Parainfluenza Virus Type 3," <u>J. Virol.</u> :2772-2778, 1993.	
	AP	Durbin et al., "Recovery of Infectious Human Parainfluenza Virus Type 3 from cDNA," <u>Virology</u> 235:323-332, 1997.	
	AQ	Durbin et al., "Minimum protein Requirements for Transcription and RNA Replication of a Minigenome of Human Parainfluenza Virus Type 3 and Evaluation of the Rule of Six," <u>Virology</u> 234:74-78 (1997).	
	FR	Flexner et al., "Prevention of vaccinia virus infection in immunodeficient mice by vector-directed IL-2 expression," <u>Nature</u> 33:259-262, 1987.	
	AS	Frank et al. "Comparison of Different Tissue Cultures for Isolation and Quantitation of Influenza and Parainfluenza Viruses," <u>J. Clin. Microbiol.</u> 10:32-6 (1979).	
	AT	Fuerst et al., "Eukaryotic transient-expression system based on recombinant vaccinia virus that synthesizes bacteriophage T7 RNA polymerase," <u>Proc. Natl. Acad. Sci. USA</u> 83:8122-8126, 1986.	
EXAMINER <i>M. D. L.</i>		DATE CONSIDERED <i>12/16/98</i>	

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CANCELLED 11/21	AU	Galinski et al., "Molecular cloning and Sequence Analysis of the Human parainfluenza 3 Virus Gene Encoding the L Protein," <u>Virology</u> 165: 499-510, (1988).	
	AV	Galinski et al., "RNA Editing in the Phosphoprotein Gene of the Human Parainfluenza Virus Type 3," <u>Virology</u> 186: 543-50 (1992).	
	AW	Garcin et al., "A highly recombinogenic system for the recovery of infectious Sendai paramyxovirus from cDNA: generation of a novel copy-back nondefective interfering virus," <u>EMBO J.</u> 14(24):6087-6094 (1995).	
	AX	Grosfeld et al., "RNA Replication by Respiratory Syncytial Virus (RSV) Is Directed by the N, P, and L Proteins; Transcription Also Occurs under These Conditions but Requires RSV Superinfection for Efficient Synthesis of Full-Length mRNA," <u>J. Virol.</u> 69: 5677-5686 (1995).	
	AY	Hall et al., "Cold-passaged human parainfluenza type 3 viruses contain ts and non-ts mutations leading to attenuation in rhesus monkeys," <u>Virus Res.</u> 22(3):173-184, 1992.	
	AZ	Karron et al., "A Live Attenuated Bovine Parainfluenza Virus Type 3 Vaccine Is Safe, Infectious, Immunogenic, and Phenotypically Stable in Infants and Children," <u>J. Infect. Dis.</u> 171:1107-1114, 1995.	
↓	BA	Kast et al., "Protection against lethal Sendai virus infection by in vivo priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <u>Proc. Natl. Acad. Sci. USA</u> 88:2283-2287, 1991.	
	BB	Kunkel et al., "Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection," <u>Methods Enzymol.</u> 154: 367-382, (1987).	
EXAMINER Mrosky		DATE CONSIDERED 12/16/95	

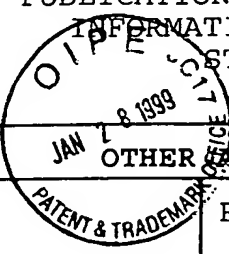
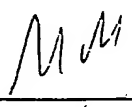

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BC	Lawson et al., "Recombinant vesicular stomatitis viruses from DNA," <u>Proc. Natl. Acad. Sci. U.S.A.</u> 92:4477-81 (1995).		
BD	Murphy et al., "Failure of Attenuated Temperature-Sensitive Influenza A (H3N2) Virus to Induce Heterologous Interference in Humans to Parainfluenza Type 1 Virus," <u>Infect. Immun.</u> 12:62-8, 1975.		
BE	Murphy et al., "Current approaches to the development of vaccines effective against parainfluenza and respiratory syncytial viruses," <u>Virus Res.</u> 11:1-15 (1988).		
BF	Murphy et al., "Enhanced pulmonary histopathology is observed in cotton rats immunized with formalin-inactivated respiratory syncytial virus (RSV) or purified F glycoprotein and challenged with RSV 3-6 months after immunization," <u>Vaccine</u> 8(5):497-502, 1990.		
BG	Palese et al., "Negative-strand RNA viruses: Genetic engineering and application," <u>Proc. Natl. Acad. Sci. U.S.A.</u> 93:11354-58, (1996).		
BH	Pelet et al., "The P gene of bovine parainfluenza virus 3 expresses all three reading frames from a single mRNA editing site," <u>EMBO J.</u> 10:443-448 (1991).		
BI	Radecke et al., "Rescue of measles viruses from cloned DNA," <u>EMBO J.</u> 14:5773-5784 (1995).		
BJ	Ray et al., "Human Parainfluenza virus Induces a Type-Specific Protective Immune Response," <u>J. Infect. Dis.</u> 162:746, 1990.		
BK	Ray et al., "Temperature-Sensitive Phenotype of the Human Parainfluenza virus Type 3 Candidate Vaccine Strain (cp45) Correlates with a Defect in the L Gene," <u>J. Virol.</u> 70:580-584 (1996).		
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MM ↓	BL	Sakaguchi et al., "Expression of the HN, F, NP and M proteins of Sendai virus by recombinant vaccinia viruses and their contribution to protective immunity against Sendai virus infections in mice," <u>J. Gen. Virol.</u> 74:479-484, 1993.	
	BM	Schnell et al., "Infectious rabies viruses from cloned cDNA," <u>EMBO J.</u> 13:4195-203 (1994).	
	BN	Skiadopoulos et al., "Three Amino Acid Substitutions in the L Protein of the Human Parainfluenza Virus Type 3 cp45 Live Attenuated Vaccine Candidate Contribute to Its Temperature-Sensitive and Attenuation Phenotypes," <u>J. Virol</u> 72(3):1762-1768, 1998.	
	BO	Spriggs and Collins, "Sequence analysis of the P and C Protein Genes of Human parainfluenza Virus Type 3: Patterns of Amino Acid Sequence Homology among Paramyxovirus Proteins," <u>J. Gen. Virol.</u> 67 2705-2719, (1986).	
	BP	Stokes et al., "The complete nucleotide sequence of the JS strain of human parainfluenza virus type 3: comparison with the Wash/47885/57 prototype strain," <u>Virus Res.</u> 25:91-103 1992.	
	BQ	Stokes et al "The complete nucleotide sequence of two cold-adapted, temperature-sensitive attenuated mutant vaccine viruses (cp 12 and cp 45) derived from the JS strain and human parainfluenza virus type 3 (PIV3)," <u>Virus Res.</u> 30(1):43-52, 1993.	
BR	Tanabayashi, K. and Compans, R.W., "Functional Interaction of Paramyxovirus Glycoproteins: identification of a Domain in Sendai Virus HN Which Promotes Cell Fusion," <u>J. Virol.</u> 70:6112-18 (1996).		
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 	BS	Tao et al., "Recovery of a Fully Viable Chimeric Human Parainfluenza Virus (PIV) Type 3 in Which the Hemagglutinin-Neuraminidase and Fusion Glycoproteins Have Been Replaced by Those of PIV Type 1," <u>J. Virol.</u> 72:2955-2961, 1998.	
	BT	Thomson et al., "Recombinant Polyepitope Vaccines for the Delivery of Multiple CD8 Cytotoxic T Cell Epitopes," <u>J. Immunol.</u> 157:822, 1996.	
	BU	van Wyke Coelingh et al., "Antigenic and Structural Properties of the Hemagglutinin-Neuraminidase glycoprotein of Human Parainfluenza Virus Type 3: Sequence analysis of Variants Selected with Monoclonal antibodies Which Inhibit Infectivity, Hemagglutination, and Neuraminidase Activities," <u>J. Virol.</u> 61:1473-1477, (1987).	
	BV	van Wyke Coelingh et al., "Antigenic Variation in the Hemagglutinin-Neuraminidase Protein of Human Parainfluenza Type 3 Virus," <u>Virology</u> 143(2):569-582, 1985.	
	BW	Whelan et al., "Efficient recovery of infectious vesicular stomatitis virus entirely from cDNA clones," <u>Proc. Natl. Acad. Sci. USA</u> 92:8388-8392 (1995).	
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